

ABSTRACT

The present invention provides a process for preparing Y-branched carbon nanotubes and the product
5 thereby, Y-branched carbon nanotubes. More specifically, the present invention provides a process for preparing Y-branched carbon nanotubes, comprising: loading a catalyst on a carbon nanotube carrier; pre-treating the catalyst-loaded carbon nanotubes to have the catalyst bonded tightly
10 to the surface of carbon nanotubes; and performing a synthetic reaction of carbon nanotubes using the obtained catalyst-loaded carbon nanotubes. According to the process of the present invention, Y-branched carbon nanotubes having at least one or more Y-junctions in various shapes
15 can be prepared easily, simply and in bulk by utilizing the conventional facilities under the usual condition of process. Thus, the invention is promising industrially. The Y-branched carbon nanotubes of the invention holds great potential in regard of materials for electrodes,
20 reinforcing agents for polymers, transistors and electrochemical products.